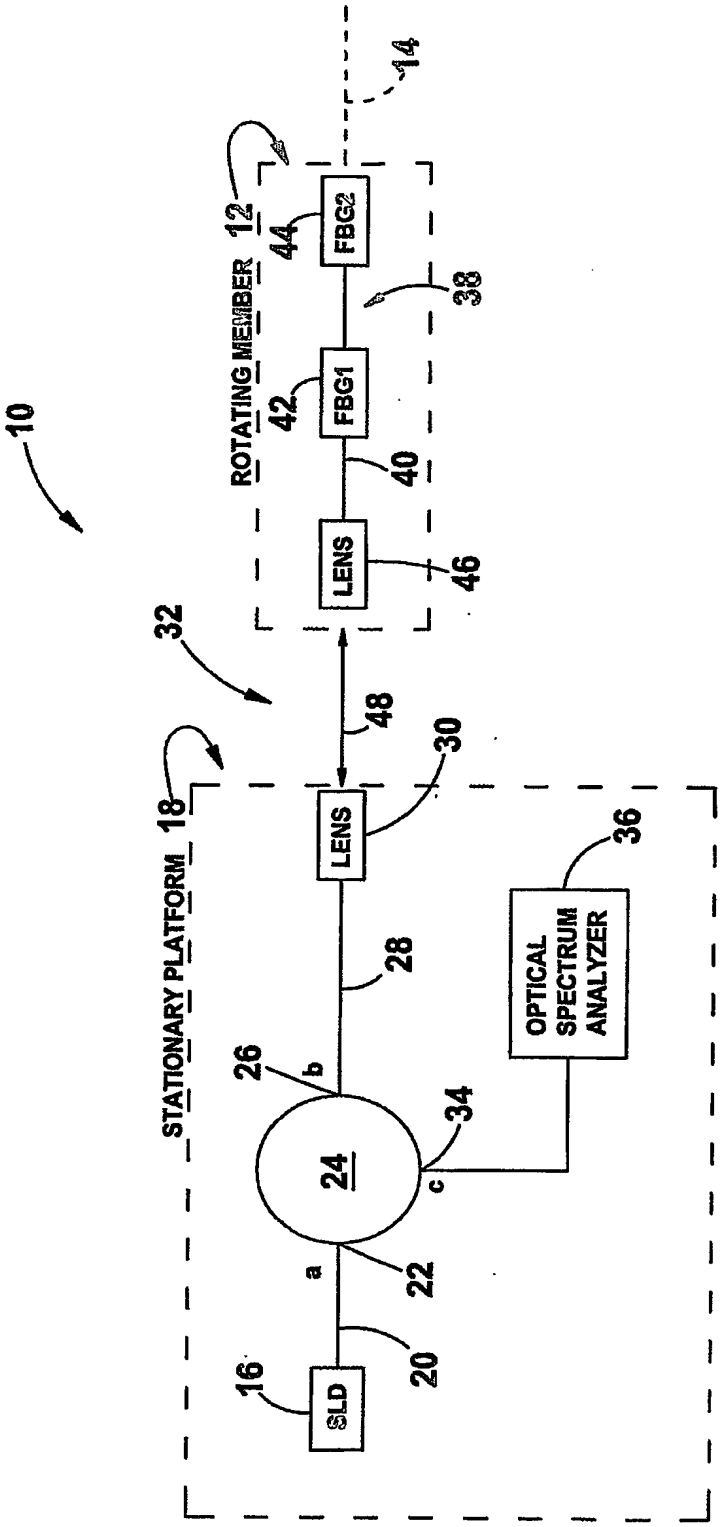
10
14
12
ROTATING MEMBER
FBG2
44
38
FBG1
42
40
LENS
46
32
48
30
18
STATIONARY PLATFORM
LENS
36
OPTICAL SPECTRUM ANALYZER
28
26
b
24
34
c
a
22
20
16
SLD

FIGURE 1

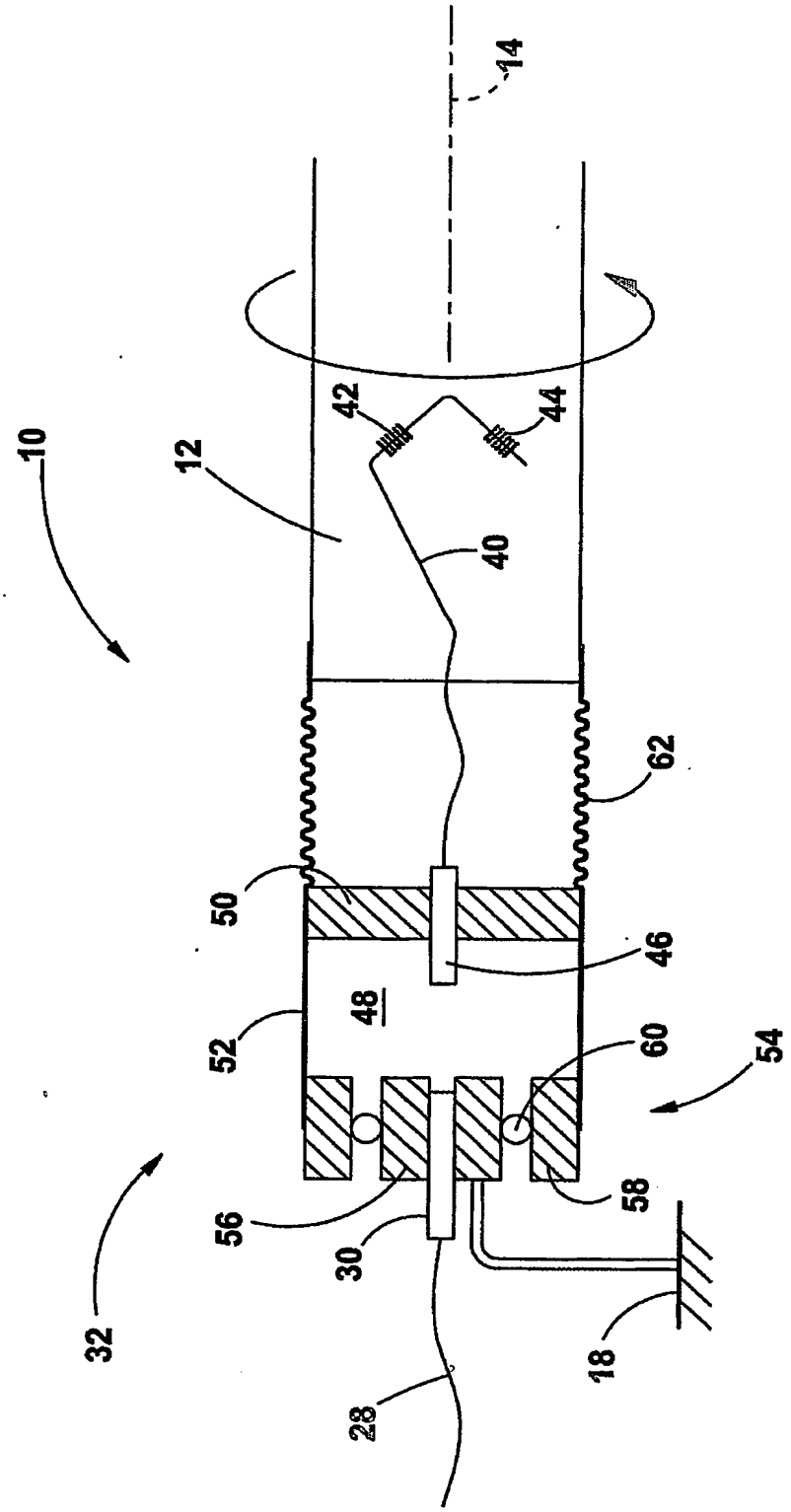

FIGURE 2(a)

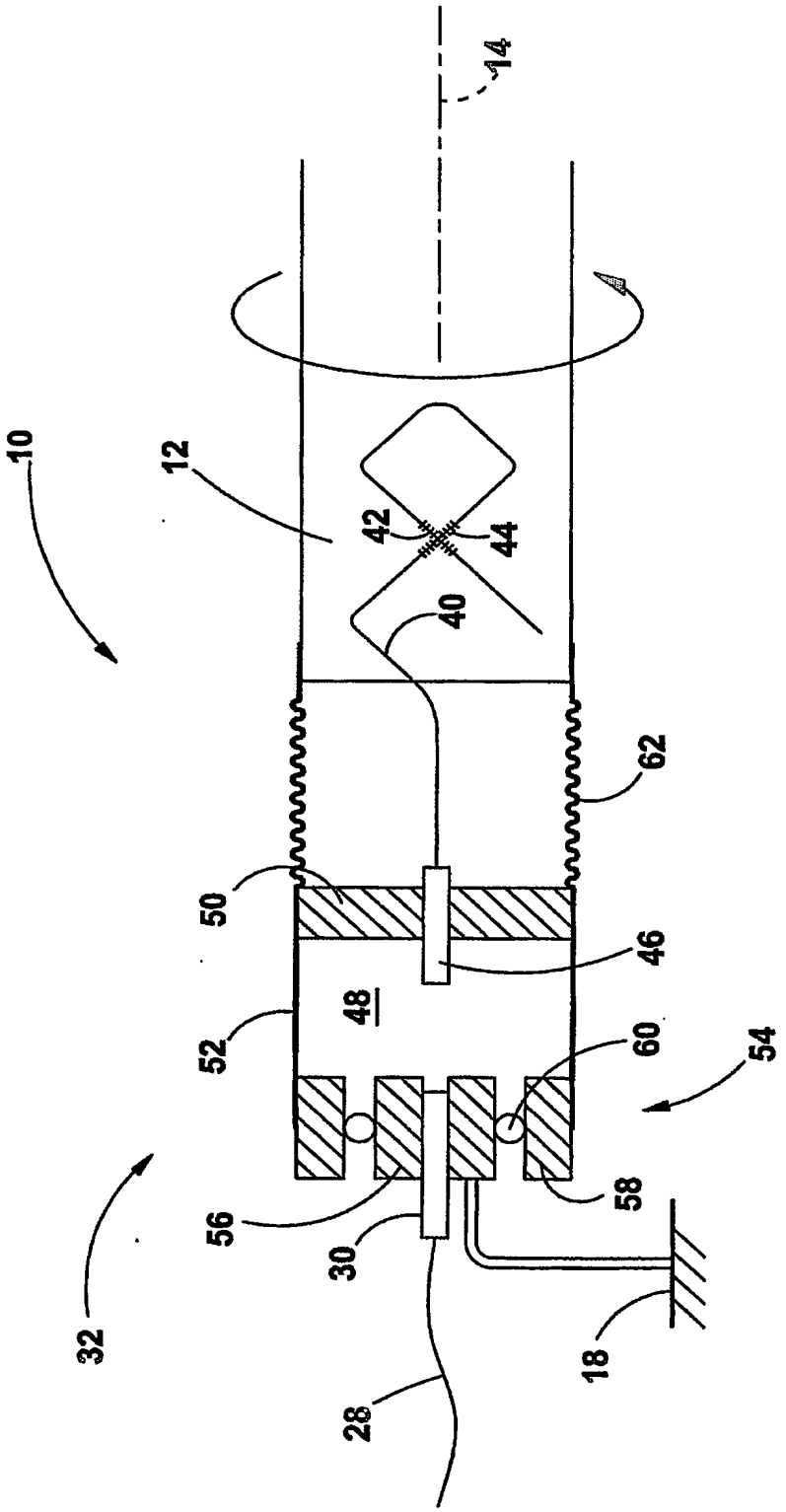

FIGURE 2(b)

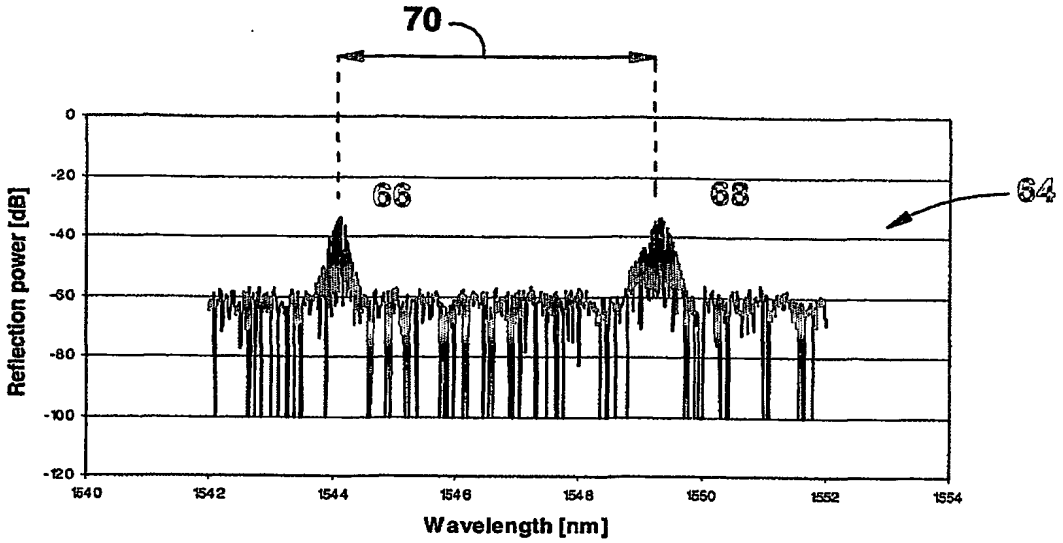

FIGURE 3

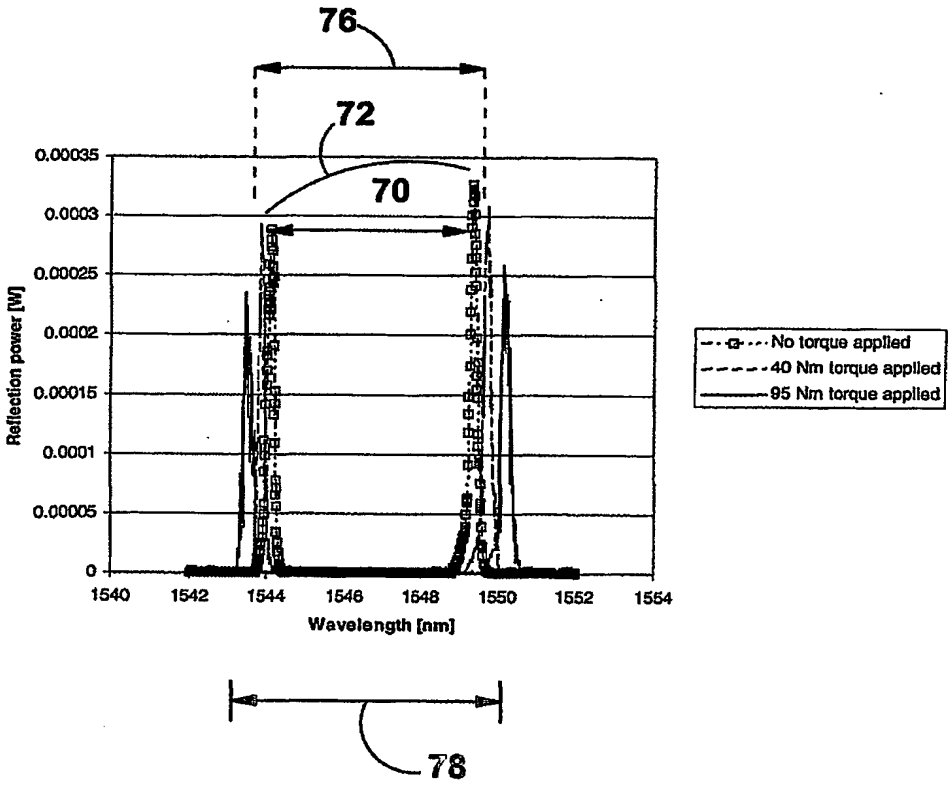

FIGURE 4

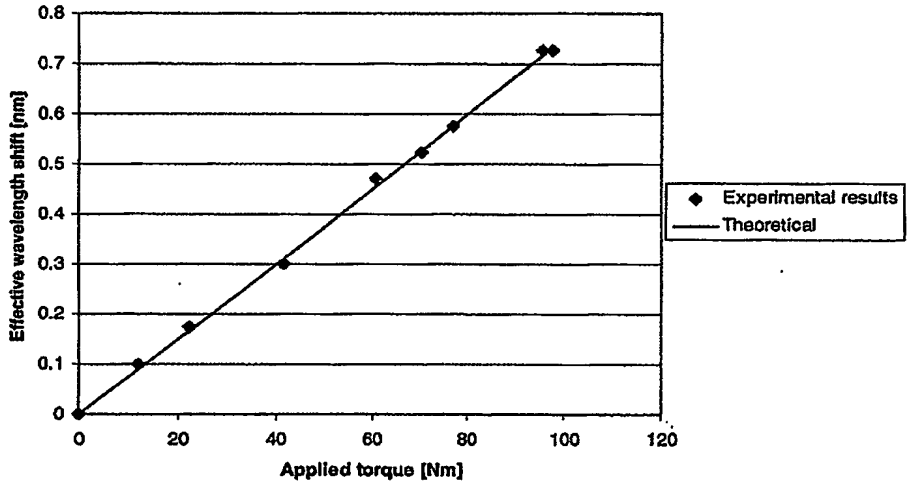
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Effective wavelength shift [nm]
0
20
40
60
80
100
120
Applied torque [Nm]
Experimental results
Theoretical

FIGURE 5